

APPENDIX A

<b>XML</b>					
<b>version</b>	1.0				
<b>encoding</b>	UTF-8				
<b>Comment</b>	edited with XML Spy v3.5 NT ( <a href="http://www.xmlspy.com">http://www.xmlspy.com</a> ) by Cassio Goldschmidt (Cisco Systems)				
<b>PopupMenuItem</b>	1 or more sequence of				
<b>PopupMenuItem</b>	1 or more				
<b>PopUpMenuItems</b>	1 or more sequence of				
<b>ClickAction</b>	1 or more				
<b>EMPTY</b>					
<b>ClickAction attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: command		CDATA		#REQUIRED	
2: type		Choice	Values	#REQUIRED	
<b>Text</b>					
1: HTML					
2: XML					
3: TOPO					
<b>DoubleClickAction</b>	EMPTY				
<b>DoubleClickAction attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: command		CDATA		#REQUIRED	
2: type		Choice	Values	#REQUIRED	
<b>Text</b>					
1: HTML					
2: XML					
3: TOPO					
<b>Comment</b>	useGrid: default is false				
<b>useGrid</b>	EMPTY				
<b>Comment</b>	fitInWindow (default is true)				
<b>fitInWindow</b>	EMPTY				
<b>Comment</b>	background: default is white without pictures				
<b>background</b>	EMPTY				
<b>Comment</b>	This is the main element - the root of everything else				
<b>graph</b>	0 or more choice of				
<b>useGrid</b>	0 or 1				
<b>fitInWindow</b>	0 or 1				
<b>centerOn</b>	0 or 1				
<b>background</b>	0 or 1				
<b>buttons</b>	0 or 1				
<b>layoutType</b>	0 or 1				
<b>PopupMenuItem</b>	0 or 1				
<b>nodes</b>	0 or 1				
<b>edges</b>	0 or 1				
<b>useGrid attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: set		Choice	Values	#REQUIRED	
<b>Text</b>					
1: true					
2: false					
<b>Comment</b>	fitInWindow, by definition, also means center graph				
<b>fitInWindow attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: set		Choice	Values	#REQUIRED	
<b>Text</b>					
1: true					
2: false					
<b>Comment</b>	CenterOn Values: graph, node, none if node is chosen, fitInWindow must be false (default is none)				
<b>centerOn</b>	#PCDATA				
<b>Comment</b>	Img = "null" means clean-up current Img, otherwise use Img= a URL, color is a color entry in Hexadecimal (e.g. FFFFFF for white, FF0000 for red)				
<b>center</b>	center is a comma separated x,y coordinate.				
<b>background attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: img		CDATA		#REQUIRED	
2: color		CDATA		#IMPLIED	
3: center		CDATA		#IMPLIED	
<b>Comment</b>	layoutType can be Circular, Hierarchical, Orthogonal and ... (default is none)				
<b>layoutType</b>	#PCDATA				
<b>Comment</b>					
<b>Comment</b>	Definition of node and nodes				
<b>nodes</b>	1 or more sequence of				
<b>node</b>					
<b>node</b>	0 or more choice of				
<b>tooltip</b>	0 or 1				
<b>location</b>	0 or 1				
<b>DoubleClickAction</b>	0 or 1				
<b>PopupMenuItem</b>	0 or 1				
<b>node attribute list</b>					
<b>Name</b>		<b>Type</b>	<b>Values</b>	<b>Presence</b>	<b>Default</b>
1: label		CDATA		#REQUIRED	
2: img		CDATA		#REQUIRED	
<b>Comment</b>	Definition of toolbar buttons				
<b>buttons</b>	1 or more sequence of				
<b>button</b>					
<b>button</b>	1 or more sequence of				
<b>tooltip</b>	0 or 1				
<b>ClickAction</b>	1 or more				

Attribute	Name	Type	Values	Presence	Default
button tooltip	1 label	CDATA		#REQUIRED	
Comment	A tooltip for the node/button.				
toolTip	2 #PCDATA				
Comment	The x,y location for a node				
location	3 #PCDATA				
Comment	Definition of edges and edge				
edges	1 or more sequence of				
edge	2 #edge	1 or more			
edge	3 #edge	0 or 1			
Comment	4 #label	0 or 1			
Comment	5 #color	0 or 1			
Comment	6 #type	0 or 1			
Comment	7 #PopupMenuType	0 or 1			
edge attribute list	1 source	CDATA		#REQUIRED	
edge attribute list	2 target	CDATA		#REQUIRED	
Comment	Edge's label, default is none				
label	#PCDATA				
Comment	Edge's color in Hexadecimal (e.g 000000 is black, 00FF00 is green), default is black				
color	#PCDATA				
Comment	Type: A number that represents the edge to be used: 1=One way arrowed edge, 2=One way reversed arrowed edge, 3=double arrow edge (both directions), 4=no arrows (default)				
type	#PCDATA				

## APPENDIX B

```
<?xml version='1.0'?>
<graph>
    <!-- fitInWindow, by definition, also means center graph -->
    <fitInWindow set="false"/>
    <!-- CenterOn Values: graph, node, none
        if node is chosen, fitInWindow must be false -->
    <centerOn>node</centerOn>
    <Nodes>
        <node label="ATHENS" img="http://eman-
            dev/AppletTest/Images/32x32-end_station_blue.gif">
            <tooltip>ATHENS</tooltip>
            <DoubleClickAction command="http://eman-
                dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hops=1&Data
                Type=1" type="XML"/>
            <PopupMenuItems>
                <PopupMenuItem label="Site links...">
                    <ClickAction command="http://eman-
                        dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
                        s=1&DataType=3" type="HTML"/>
                </PopupMenuItem>
                <PopupMenuItem label="Routers...">
                    <ClickAction command="http://eman-
                        dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
                        s=1&DataType=2" type="HTML"/>
                </PopupMenuItem>
                <PopupMenuItem label="Subnets...">
                    <ClickAction command="http://eman-
                        dev/ADTopo/ADTopo.cgi?SiteCode=ATHENS&Hop
                        s=1&DataType=4" type="HTML"/>
                </PopupMenuItem>
            </PopupMenuItems>
        </node>
        <node label="BIRMINGHAM" img="http://eman-
            dev/AppletTest/Images/32x32-end_station_blue.gif">
            <tooltip>BIRMINGHAM</tooltip>
            <DoubleClickAction command="http://eman-
                dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&Hops=1&Data
                Type=1" type="XML"/>
            <PopupMenuItems>
                <PopupMenuItem label="Site links...">
                    <ClickAction command="http://eman-
                        dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&
                        ;Hops=1&DataType=3" type="HTML"/>
                </PopupMenuItem>
                <PopupMenuItem label="Routers...">
                    <ClickAction command="http://eman-
                        dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&
                        ;Hops=1&DataType=2" type="HTML"/>
                </PopupMenuItem>
                <PopupMenuItem label="Subnets...">
```

```

        <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BIRMINGHAM&amp;
;Hops=1&Data-Type=4" type="HTML" />
    </PopupMenuItems>
</node>
<node label="BRENTWOOD" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
    <tooltip>BRENTWOOD</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&amp;Hops=1&Data-
Type=1" type="XML" />
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&amp;
Hops=1&Data-Type=3" type="HTML" />
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&amp;
Hops=1&Data-Type=2" type="HTML" />
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=BRENTWOOD&amp;
Hops=1&Data-Type=4" type="HTML" />
        </PopupMenuItem>
    </PopupMenuItems>
</node>
<node label="MPH-CS1" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
    <tooltip>MPH-CS1</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&Data-Type=1" type="XML" />
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&Data-Type=3" type="HTML" />
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&Data-Type=2" type="HTML" />
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=MPH-
CS1&Hops=1&Data-Type=4" type="HTML" />
        </PopupMenuItem>
    </PopupMenuItems>
</node>

```

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<node label="RTP" img="http://eman-dev/AppletTest/Images/32x32-
end_station_blue.gif">
    <tooltip>RTP</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1&DataTyp
e=1" type="XML"/>
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&Data-Type=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&Data-Type=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=RTP&Hops=1
&Data-Type=4" type="HTML"/>
        </PopupMenuItem>
    </PopupMenuItems>
</node>
<node label="ATLANTA" img="http://eman-
dev/AppletTest/Images/32x32-end_station_blue.gif">
    <tooltip>ATLANTA</tooltip>
    <DoubleClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Hops=1&Dat
aType=1" type="XML"/>
    <PopupMenuItems>
        <PopupMenuItem label="Site links...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Hops=1&
Data-Type=3" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Routers...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Hops=1&
Data-Type=2" type="HTML"/>
        </PopupMenuItem>
        <PopupMenuItem label="Subnets...">
            <ClickAction command="http://eman-
dev/ADTopo/ADTopo.cgi?SiteCode=ATLANTA&Hops=1&
Data-Type=4" type="HTML"/>
        </PopupMenuItem>
    </PopupMenuItems>
</node>
</Nodes>
<Edges>
    <edge source="ATLANTA" target="ATHENS">
        <label>2717</label>
    </edge>
    <edge source="ATLANTA" target="BIRMINGHAM">

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        <label>32767</label>
    </edge>
    <edge source="ATLANTA" target="BRENTWOOD">
        <label>10922</label>
    </edge>
    <edge source="ATLANTA" target="MPH-CS1">
        <label>10922</label>
    </edge>
    <edge source="ATLANTA" target="RTP">
        <label>2716</label>
    </edge>
</Edges>
</graph>
```

```

<?xml version='1.0'?>
<graph>
    <useGrid set="false"/>
    <!-- fitInWindow, by definition, also means center graph -->
    <fitInWindow set="true"/>
    <!-- CenterOn Values: graph, node, none
        if node is chosen, fitInWindow must be false -->
    <centerOn>graph</centerOn>
    <!-- Img ="null" means clean-up current img -->
    <!-- <background color="FFFFFF" img="http://cassio-
        7020/AppletTest/Images/32x32-end_station_yellow.gif"
        style="IMAGE_TILE"/> -->
    <!-- <background color="00F000" img="null"/> -->
    <background img="http://cassio-7020/AppletTest/Images/32x32-
        end_station_yellow.gif" center="10,10"/>
    <!-- <layoutType>Hierarchical</layoutType> -->
    <layoutType>Hierarchical</layoutType>
    <nodes>
        <node label="Node on the Fly" img="http://cassio-
            7020/AppletTest/Images/32x32-end_station_red.gif">
            <tooltip>Behold!!!!</tooltip>
            <location>50,100</location>
        </node>
        <node label="More Node on the Fly" img="http://cassio-
            7020/AppletTest/Images/32x32-end_station_yellow.gif">
            <!-- No tooltip -->
            <select/>
        </node>
        <node label="Unknown node" img="http://cassio-
            7020/AppletTest/Images/32x32-end_station_blue.gif">
            <!-- I just changed the icon of an existing node -->
        </node>
    </nodes>
    <edges>
        <!-- Edge types:
            1: one way arrow
            2: reverse arrow
            3: two arrows
            4: no arrows -->
        <edge source="Node on the Fly" target="Unknown node">
            <label>A new Label...</label>
            <color>0000FF</color>
            <!-- No edge type -->
        </edge>
        <edge source="Node on the Fly" target="More Node on the Fly">
            <!-- No label -->
            <color>00FF00</color>
            <type>3</type>
        </edge>
    </edges>
</graph>

```